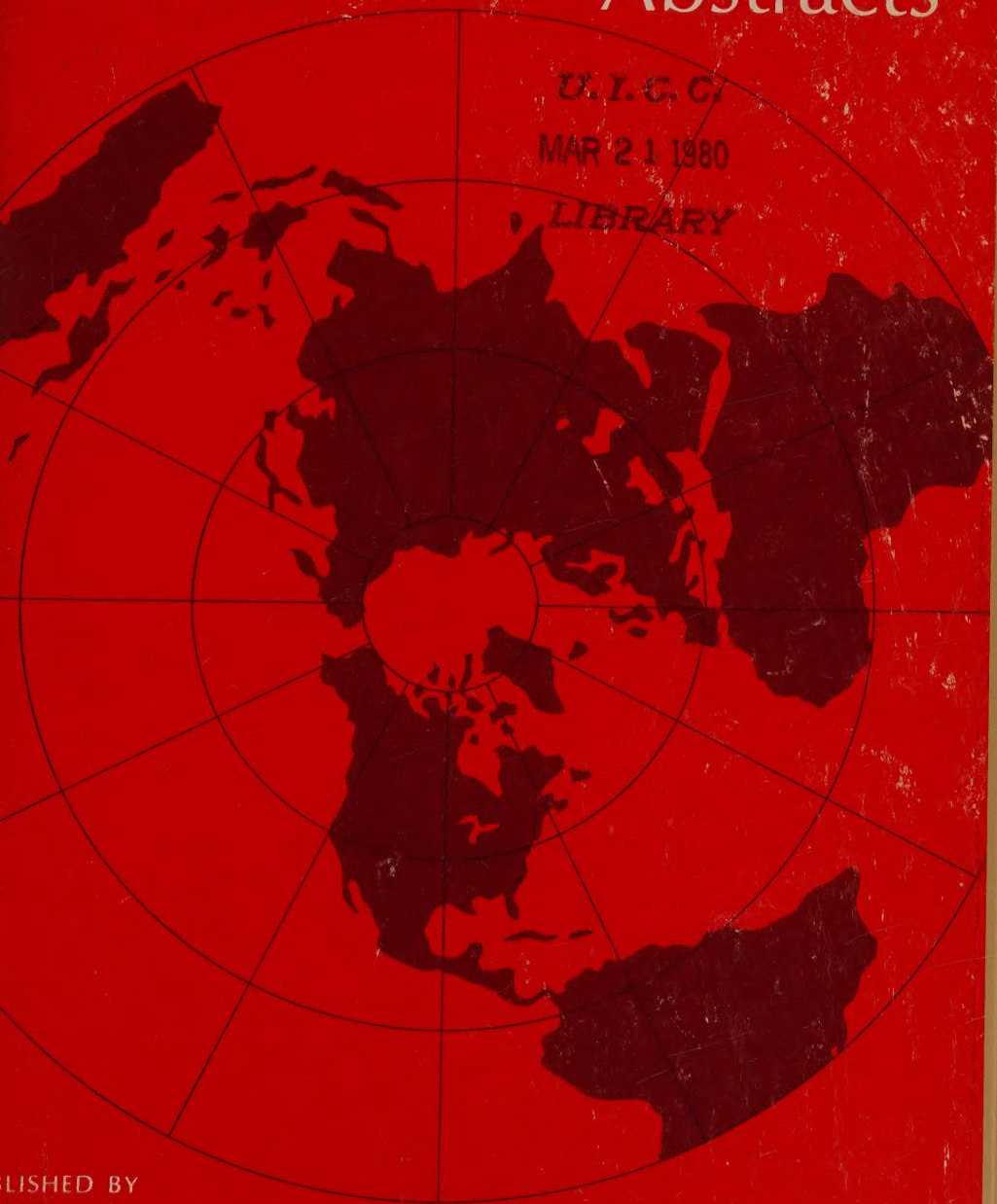
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Annales de Géophysique, Paris
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Arctic and Alpine Research, Boulder, CO.
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Astrophysics and Space Science, Dordrecht
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Australian Journal of Agricultural Research, Melbourne
Australian Journal of Physics, Melbourne
Australian Journal of Soil Research, Melbourne
Australian Meteorological Magazine, Canberra
Bollettino di Geofisica Teorica ed Applicata, Trieste
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Bulletin of Marine Science, Rosenstiel School of Marine and Atmospheric Science, Univ. of Miami, FL.
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Clean Air, Brighton, England
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Environmental Research, New York
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Geomagnetizm i Aeronomiya, Moscow
Geophysical Research Letters, Washington, D.C.
Gerlands Beiträge zur Geophysik, Leipzig
Hakodate, Japan. Marine Observatory, Bulletin
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Időjárás, Budapest
Indian Journal of Meteorology, Hydrology & Geophysics, Delhi
International Field Year for the Great Lakes, IFYGL Bulletin, Rockville, MD.
International Journal of Biometeorology, Amsterdam
Japan. Science Council, Tokyo. Ionosphere Research Committee, Report of Ionosphere and Space Research in Japan
Journal de Recherches Atmosphériques, Clermont-Ferrand
Journal of Agricultural Meteorology, Boston
Journal of Atmospheric and Terrestrial Physics, Oxford
Journal of Environmental Quality, Madison, WI.
Journal of Fluid Mechanics, London
Journal of Geophysical Research, Washington, D.C.
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Journal of Great Lakes Research, Shelburne, Ontario
Journal of Hydrology, Amsterdam
Journal of Hydrology, Dunedin, N.Z.
Journal of Marine Research, New Haven, CT.
Journal of Meteorological Research, Tokyo
Journal of Meteorology, Trowbridge, England
Journal of Physical Oceanography, Boston
Journal of Physics E, Scientific Instruments, London
Journal of the Atmospheric Sciences, Boston
Kakioka, Japan. Magnetic Observatory, Memoirs
Khidrologiya i Meteorologiya, Sofia
Kiev, Ukraine. Nauchno-Issledovatel'skiy Gidrometeorologicheskiy Institut, Trudy
Kosmicheskiye Issledovaniya, Moscow
Leningrad. Glavnaya Geofizicheskaya Observatoriya, Trudy
Limnology and Oceanography; Lawrence, KS.
Marine Observer, London
Marine Technology Society, Washington, D.C., Journal
Mariners Weather Log, Washington, D.C.
Maritimes, Kingston, R.I.
Meteorological Magazine, Bracknell
Meteorological Society of Japan, Tokyo, Journal
Meteorologicke Zpravy, Prague
Météorologie, Paris, Série 6
Meteorologische Rundschau, Berlin
Meteorologiya i Gidrologiya, Moscow
Monthly Weather Review, Boston
Moscow. Universitet, Vestnik, Ser. 3, Fizika, Astronomiya
Moscow. Universitet, Vestnik, Ser. 5, Geografiya
National Weather Digest, Clinton, MD.
Nature, London
Naturwissenschaftliche Rundschau, Stuttgart
Nordic Hydrology, Copenhagen
Oceanographical Magazine, Tokyo
Oceanography and Meteorology, Nagasaki
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Optics Letters, New York
Papers in Meteorology and Geophysics, Tokyo
Petermanns Geographische Mitteilungen, Gotha, E. Germany
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Revue de Géographie Alpine, Grenoble
Royal Astronomical Society, Oxford, Geophysical Journal
Royal Meteorological Society, Bracknell, Eng., Quarterly Journal
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Solar Energy, Oxford
Solar Physics, Dordrecht
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Water, Air and Soil Pollution, Dordrecht
Water Resources Research, Washington, D.C.
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ANNUALS

Advances in Environmental Science and Technology, New York
Advances in Geophysics, New York
Association Nationale de Lutte contre les Fléaux Atmosphériques, Toulouse [Rapport sur la campagne]
Australia. Australian Numerical Meteorology Research Centre, Melbourne
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Belgium. Institut Royal Météorologique, Brussels, Annuaire Hydrologique
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Italy. Osservatorio di Fisica Terrestre, Seminario Arcivescovile, Milan, Annuario
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Thessaloniki, Greece. Univ. Meteorological–Climatological Institute, Annuaire
Tokyo. Meteropolitan Univ., Geographical Reports
Zagreb, Yugoslavia. Hidrometeeoroloski Zavod SR Hrvatske

NUMBERED MONOGRAPHS

Australia. Commonwealth Scientific and Industrial Research Organization, Melbourne, Div. of Atmospheric Physics, Technical Paper
Belgium. Institut Royal Météorologique, Brussels, Publications, Series A and B
Berlin. Freie Univ. Institut für Meteorologie, Meteorologische Abhandlungen, Ser. A, Monographien
California. Univ., Institute of Marine Resources, La Jolla, IMR Ref.
California. Univ., Scripps Institution of Oceanography, La Jolla, Papers
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Canada. Marine Sciences Directorate, Victoria, Pacific Marine Science Report
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Food and Agriculture Organization of the United Nations, Rome, FAO Fisheries Technical Paper
France. Météorologie Nationale, Paris, Monographie
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Germany (Democratic Republic). National Komitee für Geodäsie und Geophysik, Berlin, Geodätische und Geophysikalische Veröffentlichungen, Ser. 2
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Hong Kong. Royal Observatory, Technical Note
Intergovernmental Oceanographic Commission, Paris, Technical Series
Ireland. Meteorological Service, Dublin, Technical Note
Israel. Meteorological Service, Bet-Dagan, Ser. A, Meteorological Note
Italy. Osservatorio Geofisico, Macerata, Rendiconti
Japan. Meteorological Agency, Tokyo, Results of Marine Meteorological and Oceanographic Observations
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New Zealand. Meteorological Service, Wellington, Miscellaneous Publication
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Rhode Island. Univ. Kingston, Marine Technical Report
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Sweden. Meteorologiska och Hydrologiska Institut, Stockholm, SMHI Rapporter: Meteorologi och Klimatologi

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World Meteolorogical Organization, Geneva, Reports on Marine Science Affairs
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International Conference on Mathematical Models for Environmental Problems, Univ. of Southampton, Eng., Sept. 8–12, 1975
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International Council for the Exploration of the Sea, Charlottenlund Slot, Denmark
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International Institute for Land Reclamation and Improvement, Wageningen, Netherlands

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International Oceanographic Commission, Paris
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International Symposium on Ozone for Water and Wastewater Treatment, 1st, Wash., D.C., Dec. 2–5, 1973
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International Symposium on the Hydrological Characteristics of River Basins, Tokyo, Dec. 1–8, 1975
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Inter-Research Council Committee on Pollution Research, London
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United States Army Corps of Engineers. Alaska District, Anchorage
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United States Army Corps of Engineers, Louisville District, KY.
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United States Atmospheric Turbulence and Diffusion Lab., Oak Ridge, TN.
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United States Coast Guard
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United States Commission on Natural Resources. National Research Council, Wash., D.C.
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United States Committee on Extension to the Standard Atmosphere (COESA), Wash., D.C.
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United States Council on Environmental Quality, Wash., D.C.
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United States Division of Atmospheric Water Resources Management, Denver, CO.
Project Skywater, 1973–74 biennial report: Atmospheric Water Resources Program, 28.9–128
United States. Division of Cooperative Forest Fire Control
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United States Environmental Data Service, Asheville, N.C.
Atmospheric turbidity and precipitation chemistry data for the world, 1974, 28.7–273
United States Environmental Protection Agency. Office of Air Quality Planning and Standards, Research Triangle Park, N.C.
Monitoring and air quality trends report, 1974, 28.11–121
National Air Monitoring Program: air quality and emissions trends, annual report, Vol. 1, 28.10–150
United States Executive Office of the President, Office of Emergency Preparedness, Wash., D.C.
Disaster preparedness: report to the Congress, Vol. 1, 28.1–195

Disaster preparedness: report to the Congress, Vol. 3, 28.1–196

United States Federal Coordinator for Meteorological Services and Supporting Research, Wash., D.C.

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United States Federal Council for Science and Technology. Interdepartmental Committee for Atmospheric Sciences

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United States General Accounting Office, Wash., D.C.

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United States Geological Survey, Reston, VA.

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United States Goddard Space Flight Center, Greenbelt, MD.

Nimbus-6 data catalog, Vol. 5, 1 March 1976 through 30 April 1976, data orbits 3522 through 4338, 28.6–71

Nimbus-6 data catalog, Vol. 6, 1 May 1976 through 30 June 1976, data orbits 4339 through 5155, 28.12–46

United States Joint Publications Research Service, Arlington, VA.

U.S.S.R. and East Europe scientific abstracts: geophysics, astronomy, and space, No. 377, 28.4–7

United States National Advisory Committee on Oceans and Atmosphere, Wash., D.C.

Annual report, 5th, 28.11–16

United States National Bureau of Standards, Wash., D.C.

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United States National Oceanic and Atmospheric Administration, Rockville, MD.

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United States National Oceanic and Atmospheric Administration. Atlantic Oceanographic and Meteorological Labs., Miami, FL.

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United States National Oceanic and Atmospheric Administration. Environmental Data Service, Asheville, N.C.

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United States National Oceanic and Atmospheric Administration. Environmental Research Labs., Boulder, CO.

Geophysical monitoring for climatic change, No. 4, Summary report 1975, 28.3–32

United States National Oceanic and Atmospheric Administration. Environmental Research Labs., Boulder, CO., Technical Memorandum

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United States National Oceanic and Atmospheric Administration. Environmental Research Labs., Wave Propagation Lab., Boulder, CO.

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United States National Oceanic and Atmospheric Administration, Data Buoy Office. National Space Technology Labs., Bay St. Louis, MS.

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United States National Oceanic and Atmospheric Administration, National Hurricane and Experimental Meteorology Lab., Miami, FL.

Hurricane and tropical cumulus report, No. 78, 28.9–308

United States National Oceanic and Atmospheric Administration. OCS Task Team, Wash., D.C.

Environmental quality monitoring report, 28.1–517

United States Naval Oceanographic Office, Wash., D.C.

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United States Water Resources Scientific Information Center, Wash., D.C.

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U.S.A.–Japan Research Seminar on Wind Effects on Structures, 2nd, Kyoto, 1974

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